Exercise - I (Conceptual Questions) Build Up Your Understanding

IMMUNITY

1. First line of defence of body is :-
(1) Skin and Mucous membrane
(2) Neutrophils and Monocytes
(3) Fever
(4) Interferon

2. Antigen is :-
(1) Substances which stimulates the production of venom
(2) Vaccine
(3) Antibody production stimulating agent
(4) Part of the body defence system

3. Which cell is not phagocytic in nature ?
(1) Monocyte (2) Macrophage
(3) Neutrophil (4) N.K. cell

4. Cell mediated immunity is provided by :-
(1) B–lymphocytes (2) Plasma cells
(3) Mast cells (4) T-lymphocytes

5. Which is a primary lymphoid organ ?
(1) Bone marrow and spleen
(2) Spleen and thymus
(3) Bone–marrow and tonsils
(4) thymus gland and bone marrow

6. Which antibody is called secretory antibody?
(1) I_gE (2) I_gA (3) I_gG (4) I_gM

7. Neutrophils and monocytes are important cells participating in :-
(1) Phagocytosis
(2) Perforin production
(3) Passive immunity
(4) Antibody production

8. Immune system retains the memory of which response in vaccination process :-
(1) Passive immunization response
(2) Primary immune response
(3) Secondary immune response
(4) All the above

9. Number of polypeptide chains present in a molecule of antibody :-
(1) 2 (2) 4 (3) 6 (4) 8

10. Colostrum, the first milk secretion of mammary gland is rich in immunoglobulin:
(1) IgE (2) IgM (3) IgA (4) IgG

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11. An antibody is a :-
(1) Component of blood
(2) Secretion of mammalian erythrocyte
(3) Molecule that specifically reacts to an antigen
(4) White corpuscle which attack invading bacteria

12. Surgical removal of thymus of a new born shall result in failure to mature :-
(1) Monocytes (2) B-lymphocytes
(3) T-lymphocytes (4) Basophils

13. Substances that regulate or coordinate other leucocytes are called :-
(1) Interferon
(2) Cytokine
(3) Phagocytic chemical
(4) Enzyme

GRAFTING AND VACCINES

14. Vaccination is a part of :-
(1) Treatment
(2) Passive immunisation
(3) Diagnosis
(4) Prophylaxis (Prevention)

15. Vaccine is :-
(1) Type of antibody
(2) Inactivated antigen
(3) Inactivated pathogen
(4) Activated pathogen

16. BCG vaccine is a preventive measure against :-
(1) Tuberculosis (2) Typhoid
(3) AIDS (4) Cholera

17. Now a days, Cornea transplant is very popular. The reason is that :–
(1) It is easy to preserve.
(2) It transplants very easily.
(3) It can be easily obtained.
(4) Cornea is avascular.

18. D.P.T. vaccine in an example of :-
(1) Passive immunity (2) Active immunity
(3) Both (4) Interferon

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19. Immunisation is based on :-
(1) Memory of individuals
(2) Pathogenic power
(3) Phagocytosis
(4) Memory of immune system

20. Congenital diseases are :–
(1) Diseases present by birth
(2) Deficiency diseases
(3) Spread from one individual to another
(4) Occur during life

21. Thalassemia is due to :-
(1) Increased consumption of sea food
(2) Decreased synthesis of β-polypeptide chain of Haemoglobin
(3) Decreased production of R.B.C. that cause anemia
(4) All of the above

22. Trisomic autosomal congenital disease is :-
(1) Criminal syndrome
(2) Down's syndrome
(3) Klinefelter's syndrome
(4) Turner's syndrome

23. Klinefelter's syndrome is denoted by :-
(1) 44 + XXY (2) 44 + XO
(3) 44 + XXX (4) 44 + YY

24. Autoimmunity against the synovial membrane at joint is called :-
(1) Multiple sclerosis
(2) I.D.D.M.
(3) Hashimoto disease
(4) Rheumatoid arthritis

COMMON HUMAN DISEASES

25. Widal test is employed for detecting –
(1) Pneumonia (2) Malaria
(3) Typhoid (4) Cholera

26. Which is an infectious disease ?
(1) Coronary thrombosis
(2) Diphtheria
(3) Diabetes mellitus
(4) Hypertension

27. Diphtheria is connected with :–
(1) Lungs (2) Throat
(3) Blood (4) Liver

28. Which disease is caused by *Yersinia pestis* ?
(1) Plague (2) Black fever
(3) *Xenopsylla cheopsis* (4) All of these

29. Dengue fever is transmitted by :-
(1) Aedes aegypti (Tiger mosquito)
(2) Culex fatigaus
(3) Anopheles
(4) *Ascaris*

30. "Diagram" showing inflammation of lower limb is due to :-

(1) Filariasis (2) Elephantiasis
(3) Ascariasis (4) (1) and (2) both

31. *Plasmodium* enters the human body as :-
(1) Female *Anopheles* mosquito
(2) Sporozoite
(3) Trophozoite
(4) Haemozoin

32. Toxin which is responsible for chill and high fever during malaria :-
(1) Haematin (2) Haemoglobin
(3) Haemozoin (4) Heam

33. Incorrect about *Entamoeba histolytica* or amoebiasis is :-
(a) Parasite of small intestine
(b) Causes dysentery
(c) Houseflies are mechanical carriers
(d) Symptoms include constipation, abdominal pain and cramp.
(1) a (2) c
(3) a, c (4) All are correct

34. Diagram showing ringworm affected area of skin. Which given pathogen is not related with disease?

(1) *Microsporum* (2) *Trichophyton*
(3) *Epidermophyton* (4) *Wuchereria*

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35. *Haemophilus influenzae* causes :-
(1) Typhoid (2) Plague
(3) Pneumonia (4) Influenza

36. Match the columns with regards to Vector and Disease

Column-I	Column-II
p. *Culex*	i. Dengue
q. *Anopheles*	ii. Filariasis
r. *Aedes*	iii. Malaria

(1) p-i, q-ii, r-iii (2) p-ii, q-iii, r-i
(3) p-ii, q-i, r-iii (4) p-i, q-iii, r-ii

37. House flies are mechanical carriers of :-
(1) Amoebiasis (2) Malaria
(3) Common cold (4) Plague

AIDS AND CANCER

38. AIDS is characterised by :-
(1) Reduction in number of helper T-cells
(2) Lack of interferon
(3) Reduction in number of killer T-cells
(4) Autoimmunity

39. Carcinoma is a cancer of :-
(1) Lymphocytes
(2) Connective tissue
(3) Erythrocytes
(4) Ectoderm and endoderm

40. Cancer cells are characterized by :-
(1) Uncontrolled growth
(2) Invasion of local tissue
(3) Spreading to other body parts
(4) All the above

41. Which of the following is used in the treatment of Thyroid cancer ?
(1) I_{131} (2) U_{238}
(3) Ra_{224} (4) C_{14}

42. Carcinoma refers to :-
(1) Malignant tumours of the connective tissue
(2) Malignant tumours of the skin
(3) Benign tumours of the colon
(4) Benign tumours of the connective tissue

43. AIDS is caused by HIV that principally infects :-
(1) all lymphocytes (2) activator B cells
(3) T-4 lymphocytes (4) Cytotoxic T cells

44. Treatment of cancer is :–
(1) Surgery (2) Radiation
(3) Chemotherapy (4) All

45. Causative factor of cancer is called: –
(1) Oncogenes (2) Radiogen
(3) Estrogen (4) Carcinogen

46. Nucleic acid in HIV: -
(1) ss RNA (2) ds RNA
(3) ss DNA (4) ds DNA

47. Sarcoma is cancer of :–
(1) Epithelial tissue
(2) Mesodermal tissue
(3) Blood
(4) Endodermal tissues

48. Which is not cancer :–
(1) Leukaemia (2) Glaucoma
(3) Carcinoma (4) Sarcoma

49. Blood cancer is :–
(1) Leukemia (2) Thrombosis
(3) Haemophilia (4) Hemolysis

DRUGS AND ALCOHOL ABUSE

50. Tobacco chewing results in :-
(1) Mouth cancer (2) Lung cancer
(3) Bone cancer (4) Leukaemia

51. In drunk person, the part of brain to be affected first is :-
(1) Cerebellum (2) Pons varolli
(3) Medulla oblongata (4) Cerebrum

52. Opium is obtained from :-
(1) *Thea sinensis*
(2) *Coffea arabica*
(3) *Oryza sativa*
(4) *Papaver somniferum*

53. Marijuana, Ganja, and LSD are :-
(1) Narcotics (2) Hallucinogens
(3) Stimulants (4) Medicines

54. In alcoholics, liver gets damaged as it :-
(1) Accumulates excess of fats
(2) Stores excess of glycogen
(3) Secretes more bile
(4) Has to detoxify alcohol

55. LSD is obtained from :-
(1) *Cannabis* (2) *Claviceps*
(3) *Fusarium* (4) *Nostoc*

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56. *Cannabis sativa* (Hemp) yields:-
(1) Bhang (2) Charas
(3) Ganja (4) All the above

57. In the liver, alcohol is converted into which toxic substance ?
(1) Formic acid (2) Acetaldehyde
(3) Nicotine (4) Urea

58. (a) Smack
(b) Diacetylmorphine
(c) White
(d) Odourless
(e) Bitter crystalline compound
Above statements/information are correct for:-
(1) Morphine (2) Heroin
(3) Coccain (4) Barbiturates

59. Cocaine is derived from :-
(1) *Erythroxylum coca*
(2) *Coffea arabica*
(3) *Thea sinensis*
(4) *Cannabis sativa*

60. Which measure would be particularly useful for prevention and control of alcohol and drug abuse among adolescents ?
(a) Avoid undue peer pressure
(b) Seeking professional and medical help
(c) Looking for danger sign
(d) Education and counselling
(e) Seeking help from parents and peers
(1) a, b, d only (2) a, c, d, e only
(3) c, e only (4) a, b, c, d, e

EXERCISE-I (Conceptual Questions) ANSWER KEY

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Answer	1	3	4	4	4	2	1	2	2	3	3	3	2	4	3
Question	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Answer	1	4	2	4	1	2	2	1	4	3	2	2	1	1	4
Question	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Answer	2	3	1	4	3	2	1	1	4	4	1	2	3	4	4
Question	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Answer	1	2	2	1	1	4	4	2	1	2	4	2	2	1	4

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Exercise - II (Previous Year Questions) AIPMT/NEET

AIPMT 2006

1. Antibodies in our body are complex :–
(1) Lipoproteins
(2) Steroids
(3) Prostaglandins
(4) Glycoproteins

2. HIV that causes AIDS, first starts destroying:-
(1) B–lymphocytes
(2) Leucocytes
(3) Thrombocytes
(4) Helper T–lymphocytes

AIPMT 2007

3. Increased asthmatic attacks in certain seasons are related to :-
(1) Low temperature
(2) Hot and humid environment
(3) Eating fruits preserved in tin containers
(4) Inhalation of seasonal pollen

4. Lysozyme that is present in perspiration, saliva and tears, destroys :-
(1) Most virus - infected cells
(2) Certain fungi
(3) Certain types of bacteria
(4) All viruses

AIPMT 2008

5. Match the disease in **Column I** with the appropriate items (pathogen/prevention/ treatment) in **Column II**

	Column I		Column II
(a)	Amoebiasis	(i)	*Treponema pallidum*
(b)	Diphtheria	(ii)	Use only sterilized food and water
(c)	Cholera	(iii)	DPT Vaccine
(d)	Syphilis	(iv)	Use oral rehydration therapy

(1) a – (ii), b – (i), c – (iii), d – (iv)
(2) a – (ii), b – (iii), c – (iv), d – (i)
(3) a – (i), b – (ii), c – (iii), d – (iv)
(4) a – (ii), b – (iv), c – (i), d – (iii)

TG: @Chalnaayaaar

6. To which type of barriers under innate immunity, do the saliva in the mouth and the tears from the eyes, belong?
(1) Physiological barriers
(2) Physical barriers
(3) Cytokine barriers
(4) Cellular barriers

7. Which one of the following is the ***correct*** statement regarding the particular psychotropic drug specified ?
(1) *Morphine* leads to delusions and disturbed emotions
(2) *Barbiturates* cause relaxation and temporary euphoria
(3) *Hashish* alters thought perceptions and causes hallucinations
(4) *Opium* stimulates nervous system and causes hallucinations

AIPMT 2009

8. Which one of the following statements is correct?
(1) Malignant tumours may exhibit metastasis
(2) Patients who have undergone surgery are given cannabinoids to relieve pain
(3) Benign tumours show the property of metastasis
(4) Heroin accelerates body functions

9. Which of the following is a pair of viral diseases?
(1) Typhoid, Tuberculosis
(2) Ringworm, AIDS
(3) Common Cold, AIDS
(4) Dysentery, Common Cold

10. A person likely to develop tetanus is immunised by administering :-
(1) Weakened germs
(2) Dead germs
(3) Preformed antibodies
(4) Wide spectrum antibiotics

11. Use of anti-histamines and steroids give a quick relief from :-
(1) headache (2) Allergy
(3) Nausea (4) Cough

TG: @Chalnaayaar

12. The genetic defect - adenosine deaminase (ADA) deficiency may be cured permanently by :-
(1) Enzyme replacement therapy
(2) Periodic infusion of genetically engineered lymphocytes having functional ADA cDNA
(3) Administering adenosine deaminase activators
(4) Introducing bone marrow cells producing ADA into cells at early embryonic stages

13. The letter "T" in T-lymphocyte refers to :
(1) Thymus (2) Thyroid
(3) Thalamus (4) Tonsil

AIPMT 2010-Pre

14. Widal test is used for the diagnosis of :
(1) Typhoid (2) Malaria
(3) Pneumonia (4) Tuberculosis

15. Ringworm in humans is caused by :
(1) Viruses (2) Bacteria
(3) Fungi (4) Nematodes

16. Consider the following four statements (a-d) regarding kidney transplant and select the two correct ones out of these.
(a) Even if a kidney transplant is proper the recipient may need to take immune suppressants for a long time
(b) The cell-mediated immune response is responsible for the graft rejection
(c) The B-lymphocytes are responsible for rejection of the graft
(d) The acceptance or rejection of a kidney transplant depends on specific interferons
The two *correct* statements are :-
(1) (a) and (b) (2) (b) and (c)
(3) (c) and (d) (4) (a) and (c)

17. Which one of the following statements *is correct* with respect to AIDS ?
(1) The causative HIV retrovirus enters helper T-lymphocytes thus reducing their numbers
(2) The HIV can be transmitted through eating food together with an infected person
(3) Drug addicts are least susceptible to HIV infection
(4) AIDS patients are being fully cured cent per cent with proper care and nutrition

18. Select the correct statement from the ones given below :-
(1) Cocaine is given to patients after surgery as it stimulates recovery
(2) Barbiturates when given to criminals make them tell the truth
(3) Morphine is often given to persons who have undergone surgery as a pain killer
(4) Chewing tobacco lowers blood pressure and heart rate

AIPMT 2010-Main

19. Which one of the following techniques is safest for the detection of cancers ?
(1) Radiography (X–ray)
(2) Computed tomography (CT)
(3) Histopathological studies
(4) Magnetic resonance imaging (MRI)

AIPMT 2011-Pre

20. At which stage of HIV infection does one usually show symptoms of AIDS ?
(1) When the infecting retrovirus enters host cells
(2) When viral DNA is produced by reverse transcriptase
(3) When HIV replicates rapidly in helper T-lymphocytes and damages large number of these
(4) Within 15 days of sexual contact with an infected person.

21. A certain patient is suspected to be suffering from Acquired Immuno Deficiency Syndrome. Which diagnostic technique will you recommend for its detection?
(1) ELISA (2) MRI
(3) Ultra sound (4) WIDAL

AIPMT 2011-Main

22. Common cold is not cured by antibiotics because it is:
(1) not an infectious disease
(2) caused by a virus
(3) caused by a Gram-positive bacterium
(4) caused by a Gram-negative bacterium

TG: @Chalnaayaar

23. Which one of the following options gives the correct matching of a disease with its causative organism and mode of infection?

	Disease	Causative Organisms	Mode of Infection
(1)	Malaria	Plasmodium vivax	Bite of male anopheles mosquito
(2)	Typhoid	Salmonella typhi	With inspired air
(3)	Pneumonia	Streptococcus pneumonia	Droplet infection
(4)	Elephantiasis	Streptococcus pneumonia	With infected water and food

24. Select the correct statement with respect to diseases and immunisation :

(1) Injection of snake antivenom against snake bite is an example of active immunisation.

(2) If due to some reason B-and T-lymphocytes are damaged, the body will not produce antibodies against a pathogen.

(3) Injection of dead/inactivated pathogens causes passive immunity

(4) Certain protozoans have been used to mass produce hepatitis B vaccine

AIPMT 2012-Pre

25. Common cold differs from pneumonia in, that

(1) Pneumonia is caused by a virus while the common cold is caused by the bacterium *Haemophilus influenzae*

(2) Pneumonia pathogen infects alveoli whereas the common cold affects nose and respiratory passage but not the lungs.

(3) Pneumonia is a communicable disease whereas the common cold is a nutritional deficiency disease.

(4) Pneumonia can be prevented by a live attenuated bacterial vaccine whereas the common cold has no effective vaccine.

TG: @Chalnaayaaar

26. Widal Test is carried out to test :

(1) HIV/AIDS (2) Typhoid fever

(3) Malaria (4) Diabetes mellitus

27. Cirrhosis of liver is caused by the chronic intake of:

(1) Tobacco (Chewing) (2) Cocaine

(3) Opium (4) Alcohol

28. Motile zygote of *Plasmodium* occurs in :

(1) Human RBCs

(2) Human liver

(3) Gut of female *Anopheles*

(4) Salivary glands of *Anopheles*

29. In which one of the following options the two examples are correctly matched with their particular type of immunity?

	Examples	Type of immunity
(1)	Saliva in mouth and Tears in eyes	Physical barriers
(2)	Mucus coating of epithelium lining the urinogenital tract and the HCl in stomach	Physiological barriers
(3)	Polymorpho nuclear leukocytes and monocytes	Cellular barriers
(4)	Anti-tetanus and anti-snake bite injections	Active immunity

AIPMT 2012-Main

30. The first clinical gene therapy was given for treating :

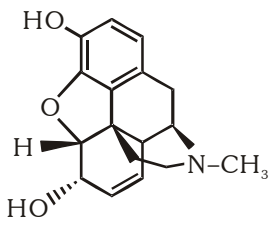
(1) Rheumatoid arthritis

(2) Adenosine deaminase deficiency

(3) Diabetes mellitus

(4) Chicken pox

31. Identify the molecules (a) and (b) shown below and select the right option giving their source and use.

(a) 

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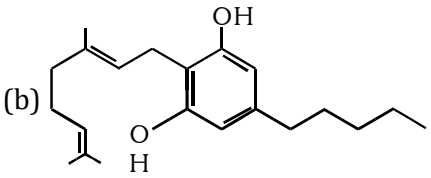
(b) 

Options :

	Molecule	Source	Use
(1)	(b) Cannabinoid	*Atropa belladona*	Produces hallucinations
(2)	(a) Morphine	*Papaver somniferum*	Sedative and pain killer
(3)	(a) Cocaine	*Erythroxylum coca*	Accelerates the transport of dopamine
(4)	(b) Heroin	*Cannabis sativa*	Depressant and slows down body functions

32. Which one of the following statements is correct with respect to immunity?
(1) Antibodies are protein molecules, each of which has four light chains
(2) Rejection of a kidney graft is the function of B-lymphocytes.
(3) Preformed antibodies need to be injected to treat the bite by a viper snake.
(4) The antibodies against small pox pathogen are produced by T-lymphocytes

NEET-UG 2013

33. The cell-mediated immunity inside the human body is carried out by :
(1) Erythrocytes
(2) T-lymphocytes
(3) B-lymphocytes
(4) Thrombocytes

34. Infection of *Ascaris* usually occurs by :
(1) mosquito bite
(2) drinking water containing eggs of *Ascaris*
(3) eating imperfectly cooked pork.
(4) Tse-tse fly

TG: @Chalnaayaaar

AIPMT 2014

35. Which is the particular type of drug that is obtained from the plant whose one flowering branch is shown below?

(1) Hallucinogen
(2) Depressant
(3) Stimulant
(4) Pain - killer

36. At which stage of HIV infection does one usually show symptoms of AIDS ?
(1) Within 15 days of sexual contact with an infected person.
(2) When the infected retro virus enters host cells.
(3) When HIV damages large number of helper T-Lymphocytes.
(4) When the viral DNA is produced by reverse transcriptase.

AIPMT 2015

37. HIV that causes AIDS, first starts destroying:
(1) Leucocytes
(2) Helper T- Lymphocytes
(3) Thrombocytes
(4) B- Lymphocytes

38. Which of the following viruses is not transferred through semen of an infected male?
(1) Human immunodeficiency virus
(2) Chikungunya virus
(3) Ebola virus
(4) Hepatitis B virus

39. Match each disease with its **correct** type of vaccine:

(a) tuberculosis	(i) harmless virus
(b) whooping cough	(ii) inactivated toxin
(c) diphtheria	(iii) killed bacteria
(d) polio	(iv) harmless bacteria

	(a)	(b)	(c)	(d)
(1)	(iii)	(ii)	(iv)	(i)
(2)	(iv)	(iii)	(ii)	(i)
(3)	(i)	(ii)	(iv)	(iii)
(4)	(ii)	(i)	(iii)	(iv)

Re-AIPMT 2015

40. Grafted kidney may be rejected in a patient due to :-
(1) Innate immune response
(2) Humoral immune response
(3) Cell-mediated immune response
(4) Passive immune response

41 If you suspect major deficiency of antibodies in a person, to which of the following would you look for confirmatory evidence?
(1) Serum globulins
(2) Fibrinogin in plasma
(3) Serum albumins
(4) Haemocytes

42. Name the pulmonary disease in which alveolar surface area involved in gas exchange is drastically reduced due to damage in the alveolar walls.
(1) Asthma (2) Pleurisy
(3) Emphysema (4) Pneumonia

43. Which of the following immunoglobulins does constitute the largest percentage in human milk?
(1) IgG (2) IgD
(3) IgM (4) IgA

NEET-I 2016

44. Name the chronic respiratory disorder caused mainly by cigarette smoking :-
(1) Emphysema
(2) Asthma
(3) Respiratory acidosis
(4) Respiratory alkalosis

45. Asthma may be attributed to :
(1) bacterial infection of the lungs
(2) allergic reaction of the mast cells in the lungs
(3) inflammation of the trachea
(4) accumulation of fluid in the lungs

46. In higher vertebrates, the immune system can distinguish self-cells and non-self. If this property is lost due to genetic abnormality and it attacks self-cells, then it leads to :-
(1) Allergic response
(2) Graft rejection
(3) Auto-immune disease
(4) Active immunity

TG: @Chalnaayaaar

47. Antivenom injection contains preformed antibodies while polio drops that are administered into the body contain :-
(1) Activated pathogens
(2) Harvested antibodies
(3) Gamma globulin
(4) Attenuated pathogens

48. Lack of relaxation between successive stimuli in sustained muscle contraction is known as :-
(1) Spasm (2) Fatigue
(3) Tetanus (4) Tonus

49. Which of the following statements is **not true** for cancer cells in relation to mutations
(1) Mutations in proto-oncogenes accelerate the cell cycle.
(2) Mutations destroy telomerase inhibitor.
(3) Mutations inactive the cell control.
(4) Mutations inhibit production of telomerase.

NEET-II 2016

50. Which kind of therapy was given in 1990 to a four year old girl with adenosine deaminase (ADA) deficiency ?
(1) Immunotherapy (2) Radiation therapy
(3) Gene therapy (4) Chemotherapy

51. Which of the following is **correct** regarding AIDS causative agent HIV ?
(1) HIV is unenveloped retrovirus.
(2) HIV does not escape but attacks the aquired immune response.
(3) HIV is enveloped virus containing one molecule of single-stranded RNA and one molecule of reverse transcriptase.
(4) HIV is enveloped virus that contains two identical molecules of single-stranded RNA and two molecules of reverse transcriptase.

52. Which of the following sets of diseases is caused by bacteria?
(1) Tetanus and mumps
(2) Herpes and influenza
(3) Cholera and tetanus
(4) Typhoid and smallpox

TG: @Chalnaayaaar

NEET(UG) 2017

53. Match the following sexually transmitted diseases (Column-I) with their causative agent (Column-II) and select the correct option :

Column I	Column II
(a) Gonorrhea	(i) HIV
(b) Symphilis	(ii) Neisseria
(c) Genital Warts	(iii) Treponema
(d) AIDS	(iv) Human Papilloma-virus

	(a)	(b)	(c)	(d)
(1)	iii	iv	i	ii
(2)	iv	ii	iii	i
(3)	iv	iii	ii	i
(4)	ii	iii	iv	i

54. Transplantation of tissues/organs fails often due to non-acceptance by the patient's body. Which type of immune-response is responsible for such rejections?
(1) Cell - mediated immune response
(2) Hormonal immune response
(3) Physiological immune response
(4) Autoimmune response

NEET(UG) 2018

55. Which of the following is ***not*** an autoimmune disease?
(1) Psoriasis
(2) Rheumatoid arthritis
(3) Alzheimer's disease
(4) Vitiligo

56. In which disease does mosquito transmitted pathogen cause chronic inflammation of lymphatic vessels?
(1) Elephantiasis (2) Ascariasis
(3) Ringworm disease (4) Amoebiasis

NEET (UG) 2019

57. Colostrum, the yellowish fluid, secreted by mother during the initial days of lactation is very essential to impart immunity to the newborn infants because it contains :-
(1) Natural killer cells
(2) Monocytes
(3) Macrophages
(4) Immunoglobulin A

58. Which of the following sexually transmitted diseases is **not** completely curable ?
(1) Gonorrhoea (2) Genital warts
(3) Genital herpes (4) Chlamydiasis

59. Which of the following immune responses is responsible for rejection of kidney graft?
(1) Auto- immune respones
(2) Humoral immune response
(3) Inflammatory immune response
(4) Cell-mediated immune response

60. Which of the following muscular disorders is inherited?
(1) Tetany
(2) Muscular dystrophy
(3) Myasthenia gravis
(4) Botulism

61. Drug called 'Heroin' is synthesized by :
(1) methylation of morphine
(2) acetylation of morphine
(3) glycosylation of morphine
(4) nitration of morphine

62. Identify the **correct** pair representing the causative agent of typhoid fever and the confirmatory test for typhoid.
(1) *Plasmodium vivax*/UTI test.
(2) *Streptococcus pneumoniae*/Widal test
(3) *Salmonella typhi*/Anthrone test
(4) *Salmonella typhi*/Widal test

NEET (UG) 2019 (Odisha)

63. Humans have acquired immune system that produces antibodies to neutralize pathogens. Still innate immune system is present at the time of birth because it
(1) is very specific and uses different macrophages.
(2) produces memory cells for mounting fast secondary response.
(3) has natural killer cells which can phagocytose and destroy microbes.
(4) provides passive immunity.

64. Which of the following diseases is an autoimmune disorder?
(1) Myasthenia gravis (2) Arthritis
(3) Osteoporosis (4) Gout

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65. Which of the following sexually transmitted diseases do not specifically affect reproductive organs ?
(1) Genital warts and Hepatitis-B
(2) Syphilis and Genital herpes
(3) AIDS and Hepatitis B
(4) Chlamydiasis and AIDS

66. Coca alkaloid or cocaine is obtained from:
(1) *Papaver somniferum*
(2) *Atropha belladona*
(3) *Erythroxylum coca*
(4) *Datura*

NEET (UG) 2020

67. Match the following diseases with the causative organism and select the **correct** option.

Column - I	**Column - II**
(a) Typhoid	(i) *Wuchereria*
(b) Pneumonia	(ii) *Plasmodium*
(c) Filariasis	(iii) *Salmonella*
(d) Malaria	(iv) *Haemophilus*

(1) (a)–(iv), (b)–(i), (c)–(ii), (d)–(iii)
(2) (a)–(i), (b)–(iii), (c)–(ii), (d)–(iv)
(3) (a)–(iii), (b)–(iv), (c)–(i), (d)–(ii)
(4) (a)–(ii), (b)–(i), (c)–(iii), (d)–(iv)

NEET (UG) 2020 (COVID-19)

68. Which of the following STDs are **not** curable?
(1) Genital herpes, Hepatitis B, HIV infection
(2) Chlamydiasis, Syphilis, Genital warts
(3) HIV, Gonorrhoea, Trichomoniasis
(4) Gonorrhoea, Trichomoniasis, Hepatitis B

69. Match the following columns and select the correct option :

Column - I	**Column - II**
(i) Typhoid	(a) *Haemophilus influenzae*
(ii) Malaria	(b) *Wuchereria bancrofti*
(iii) Pneumonia	(c) *Plasmodium vivax*
(iv) Filariasis	(d) *Salmonella typhi*

(1) (i)-(d), (ii)-(c), (iii)-(a), (iv)-(b)
(2) (i)-(c), (ii)-(d), (iii)-(b), (iv)-(a)
(3) (i)-(a), (ii)-(c), (iii)-(b), (iv)-(d)
(4) (i)-(a), (ii)-(b), (iii)-(d), (iv)-(c)

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70. Cyclosporin A, used as immuno suppression agent, is produced from :
(1) *Monascus purpureus*
(2) *Saccharomyces cerevisiae*
(3) *Penicillium notatum*
(4) *Trichoderma polysporum*

71. The yellowish fluid "colostrum" secreted by mammary glands of mother during the initial days of lactation has abundant antibodies (IgA) to protect the infant. This type of immunity is called as :
(1) Passive immunity
(2) Active immunity
(3) Acquired immunity
(4) Autoimmunity

NEET (UG) 2021

72. Chronic auto immune disorder affecting neuro muscular junction leading to fatigue, weakening and paralysis of skeletal muscle is called as:
(1) Arthritis
(2) Muscular dystrophy
(3) Myasthenia gravis
(4) Gout

73. Match **List - I** with **List -II.**

Column - I	**Column - II**
(i) Filariasis	(a) *Haemophilus influenzae*
(ii) Amoebiasis	(b) *Trichophyton*
(iii) Pneumonia	(c) *Wuchereria bancrofti*
(iv) Ringworm	(d) *Entamoeba histolytica*

Choose the **correct** answer from the options given below.
(1) (a)-(iv), (b)-(i), (c)-(iii), (d)-(ii)
(2) (a)-(iii), (b)-(iv), (c)-(i), (d)-(ii)
(3) (a)-(i), (b)-(ii), (c)-(iv), (d)-(iii)
(4) (a)-(ii), (b)-(iii), (c)-(i), (d)-(iv)

NEET (UG) 2022

74. Given below are two statements:
Statement I: Autoimmune disorder is a condition where body defense mechanism recognizes its own cells as foreign bodies.
Statement II: Rheumatoid arthritis is a condition where body does not attack self cells.
In the light of the above statements, choose the **most appropriate** answer from the options given below:

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(1) Both **Statement I** and **Statement II** are incorrect
(2) **Statement I** is correct but **Statement II** is incorrect
(3) **Statement I** is incorrect but **Statement II** is correct
(4) Both **Statement I** and **Statement II** are correct

75. Select the **incorrect** statement with respect to acquired immunity.
(1) Anamnestic response is elicited on subsequent encounters with the same pathogen.
(2) Anamnestic response is due to memory of first encounter.
(3) Acquired immunity is non-specific type of defense present at the time of birth.
(4) Primary response is produced when our body encounters a pathogen for the first time.

Re-NEET (UG) 2022

76. Which of the following reasons in mainly responsible for graft rejection in transplantation of organs ?
(1) Inability of recipient to differentiate between 'self and 'non–self' tissues/cells
(2) Humoral immune response only
(3) Auto–immune response
(4) Cell–mediated response

77. **Match List - I with List - II :**

List - I	List - II
(a) Cellular barrier	(i) Interferons
(b) Cytokine barrier	(ii) Mucus
(c) Physical barrier	(iii) Neutrophils
(d) Physiological barrier	(iv) HCl in gastric juice

Choose the correct answer from the options given below :
(1) (a) – (ii), (b) – (iii), (c) – (iv), (d) – (i)
(2) (a) – (ii), (b) – (iii), (c) – (i), (d) – (iv)
(3) (a) – (iii), (b) – (iv), (c) – (ii), (d) – (i)
(4) (a) – (iii), (b) – (i), (c) – (ii), (d) – (iv)

EXERCISE-II (Previous Year Questions) ANSWER KEY

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Answer	4	4	4	3	2	1	2	1	3	3	2	4	1	1	3
Question	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Answer	1	1	3	4	3	1	2	3	2	2	2	4	3	3	2
Question	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Answer	2	3	2	2	1	3	2	2	2	3	1	3	4	1	2
Question	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Answer	3	4	3	4	3	4	3	4	1	3	1	4	3	4	2
Question	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
Answer	2	4	3	1	3	3	3	1	1	4	1	3	2	2	3
Question	76	77													
Answer	4	4													

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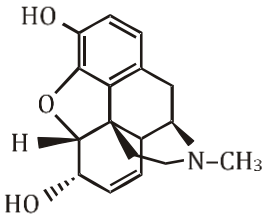
Exercise - III Master Your Understanding

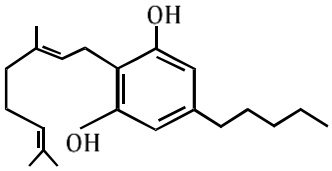
EXERCISE-III(A) NCERT BASED QUESTIONS

1. Diagram is showing chemical structure of Morphine, which is a natural opiate like codeine. Morphine is a strong analgesic, also has sedative & calming effect. It depresses respiratory centre, BP, heart beat. It is obtained from-



(1) *Cannabis sativa*
(2) *Datura*
(3) *Erythroxylum coca*
(4) *Papever sominiferum*

2. The given diagram is showing skeletal structure of cannabinoid molecule. Cannabinoids interact with cannabinoid receptors present principally in the brain. Natural cannabinoids are obtained from inflorescences of the plant *cannabis sativa*. Nature of cannabinoids is :-



(1) Aliphatic (2) Phenolic
(3) Ketonic (4) Ether

3. Nicotine :-
(1) stimulates adrenal gland
(2) is an alkaloid
(3) is present in tobacco
(4) All of these

4. Opioids are the drugs which bind to specific opioid receptors present in our CNS and GIT. Heroin, commonly called smack is chemically...., which is white, odourless, bitter crystalline compound, obtained by.....of morphine.
(1) Diacetylmorphine, methylation
(2) Diacetylmorphine, acetylation
(3) Benzodiazepines, amination
(4) Amphetamines, acetylation

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5. Match the following :-

Column A		Column B	
I.	Allergy	(i)	Typhoid fever
II.	T-helper cells	(ii)	Single stranded RNA
III.	Hallucinogens	(iii)	Wuchereria
IV.	Liver test	(iv)	IgE
V.	Widal test	(v)	Cirrhosis
VI.	Filariasis	(vi)	Atropa belladona
VII.	ELISA test	(vii)	Activation of B-cells
VIII.	AIDS virus	(viii)	Carcinogens
IX.	Treatment of cancer	(ix)	AIDS
X.	X-rays	(x)	Immunotherapy

(1) I-(iv), II-(vi), III-(viii), IV-(v), V-(i), VI (iii), VII-(ix), VIII-(ii), IX-(x), X-(vii)
(2) I-(iv), II-(vii), III-(vi), IV-(v), V-(i), VI-(iii), VII-(ix), VIII-(ii), IX-(x), X-(viii)
(3) I-(iv), II-(vii), III-(v), IV-(ii), V-(i), VI-(iii), VII-(ix), VIII-(vi), IX-(x), X-(viii)
(4) I-(iv), II-(vii), III-(vi), IV-(v), V-(i), VI-(ix), VII-(x), VIII-(ii), IX-(iii), X-(viii)

6. Match the Column I with Column II :-

Column A		Column B	
A.	Peyer's patches	(i)	*Aedes*
B.	Rheumatoid	(ii)	Neoplastic arthritis transformation
C.	IgA	(iii)	Cancer treatment
D.	Interferon	(iv)	Allergy
E.	*Gambusia*	(v)	Secondary lymphoid organ
F.	Chikungunya	(vi)	Metastasis
G.	Tetanus	(vii)	Colostrum
H.	IgE	(viii)	Autoimmunity
I.	Malignant tumor	(ix)	Antitoxin
J.	Carcinogen	(x)	Mosquito larvae

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(1) A-(v), B-(viii), C-(vii), D-(iii), E-(x), F-(i), G-(ix), H-(iv), I-(vi), J-(ii)
(2) A-(vi), B-(viii), C-(vii), D(iii), E-(x), F-(ii), G-(ix), H-(iv), J-(iii)
(3) A-(iv), B-(viii), C-(vii), D-(iii), E-(x), F-(i), G-(ix), H-(v), I-(vi), J-(ii)
(4) A-(x), B-(viii), C-(vii), D-(iii), E-(v), F-(i), G-(ix), H-(iv), I-(vi), J-(ii)

7. Most cancers are treated by combination of:-
(a) Surgery (b) Radiotherapy
(c) Chemotherapy
(1) a and b only (2) a and c only
(3) b and c only (4) a, b and c

8. Which radiations cause DNA damage leading to neoplastic transformation ?
(a) Ionising radiations
(b) X-rays
(c) Non-ionising radiations
(d) UV-rays
(1) a and c only (2) b and d only
(3) a and b only (4) a, b, c and d

9. Mark the correct statement :-
(a) Yoga has been practised to achieve physical and mental health
(b) Infectious diseases are very common and everyone of us suffers from these at sometime or other
(c) AIDS is an infectious disease
(d) Cancer is non-infectious disease
(e) Healthy persons bring economic prosperity
(1) a, b and c only (2) b, c, d and e only
(3) c and d only (4) a, b, c, d and e

10. Below are some statements related to life cycle of plasmodium. Which of the following is correct?
(1) Gametocyte stage infects human body
(2) It multiplies by sexual method of reproduction in human liver
(3) human RBC are ruptured and releases a toxin hemozoin
(4) development of gametocyte possible only in female culex mosquito

11. The factor which has effect on health is :-
(1) Genetic disorders (2) Infections
(3) Life style (4) All of the above

12. Mark correct about a healthy person.
(i) More efficient
(ii) High productivity
(iii) Longevity of people
(iv) Brings economic prosperity
(1) Both (i) and (ii) only
(2) Only (iv)
(3) Both (iii) and (iv) only
(4) All are correct

13. Mark the correct statement
(i) Health is state of complete physical, mental and social well being
(ii) Common cold is infection of nose and upper respiratory tract
(iii) Hepatitis is infectious diseases
(iv) Cancer is non-infectious disease
(v) Healthy persons bring economic prosperity
(1) (i), (ii) and (iii)
(2) (ii), (iii), (iv) and (v)
(3) (iii) and (iv)
(4) (i), (ii), (iii), (iv) and (v)

14. Find out the incorrect matching with regards to innate immunity :-
(1) Physical barriers = Skin, mucosa
(2) Cytokine barriers = Interferons
(3) Cellular barriers = PMNL, neutrophils
(4) Physiological barriers = Epithelial lining

15. H_2L_2 represents ..... molecule :-
(1) Antibody (2) Antigen
(3) Pathogen (4) Both (1) and (2)

16. Which immune response / immunity is mainly responsible for graft rejection ?
(1) Cell-mediated (2) Humoral
(3) Antibody mediated (4) All of the above

17. AIDS does not spread due to :-
(1) Mere touch (2) Physical touch
(3) Body fluids (4) Both (1) and (2)

18. Incubation period for AIDS is usually :-
(1) 5–10 month (2) 5–10 years
(3) 2–12 month (4) 2–12 weeks

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19. Which cell acts as factory of HIV ?
(1) Macrophage (2) T_H cells
(3) T_K cells (4) N.K. cells

20. In full blown AIDS, opportunistic infections are especially caused by :-
(1) *Mycobacterium* (2) *Toxoplasma*
(3) Viruses and fungi (4) All of the above

21. Withdrawal syndrome is characterised by:-
(a) Anxiety (b) Shakiness
(c) Nausea (d) Sweating
(1) a, c only (2) b, c only
(3) a, c, d only (4) a, b, c and d

22. (a) *Salmonella* is pathogenic bacterium
(b) Sustained high fever (39°C to 40°C)
(c) Intestinal perforation in severe cases
(d) Confirmed by "widal test"
(e) "Marry Mallon" was a carrier
Above statements are true for: -
(1) Plague (2) Diphtheria
(3) Typhoid (4) Dysentery

23. Which of the following is not included in cellular barrier of innate immunity?
(1) Monocyte
(2) P.M.N.L. neutrophils
(3) T killer cell
(4) Macrophage

24. Which of the following statement is true for interferons ?
(1) Secreted by non infected cells
(2) Protect virus infected cells
(3) Protect non-infected cells
(4) They are lipid in nature.

25. A certain patient is suspected to be suffering from Acquired Immuno Deficiency Syndrome. Which diagnostic technique will you recommend for its detection ?
(1) ELISA (2) MRI
(3) Ultrasound (4) WIDAL

26. Treatment of which disease is only partially effective and can not prevent death, which is inevitable :-
(1) Cancer (2) AIDS
(3) SCID (4) Tuberculosis

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27. Cancer patients are given biological response modifiers such as _____ which activates their immune system and help in destroying the tumour:
(1) α-interferons (2) Cannabinoids
(3) Sedative (4) Opiate

28. Which of the following STD is not caused by bacteria ?
(1) Trichomoniasis (2) Syphilis
(3) Gonorrhoea (4) Chlamydiasis

29. Which disease is completely curable if detected early and treated properly ?
(1) Hepatitis-B (2) Gonorrhoea
(3) AIDS (4) Genital herpes

30. Find the correct statement about tobacco smoking-
(A) Nicotine inhibits secretion of adrenal medulla.
(B) Smoking is associated with increased incidence of cancer of lungs and throat.
(C) Smoking increases carbon monoxide content in blood and decreases the concentration of haembound oxygen.
(D) Smoking decreases blood pressure.
(1) A and D (2) B and D
(3) A and B (4) B and C

EXERCISE-III(B) (ANALYTICAL QUESTIONS)

31. G-6-P dehydrogenase deficiency is associated with lysis of :-
(1) Leucocytes (2) Lymphocytes
(3) Platelets (4) RBCs

32. Reason for trisomy in Down's syndrome :-
(1) Non disjunction during sperm formation
(2) Non-disjunction during egg formation
(3) Non-disjunction at the time of egg or sperm formation
(4) Addition of one extra chromosome during mitosis

33. Penicillin is bacteriolytic because :-
(1) It checks spindle formation
(2) It destroys chromatin
(3) It inhibit cell wall formation
(4) It inhibit protein synthesis

34. Most radiosensitive tissue of body is :
(1) bone marrow (2) platelet
(3) nervous tissue (4) lymphocyte

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35. BCG vaccine contains :-
(1) killed mycobacteria
(2) live attenuated mycobacteria
(3) recombinant protein of mycobacteria
(4) antibody against mycobacteria

36. Primary response which is of ___(A)___ intensity. Subsequent encounter with the same pathogen elicit a ___(B)___ intensified ___(C)___ response, which is based on ___(D)___.

	(A)	(B)	(C)	(D)
(1)	High	Low	Anamnestic	Specificity
(2)	Low	High	Primary	Diversity
(3)	Low	High	Secondary	Memory
(4)	High	Low	Primary	Memory

37. Read the following list carefully .....
Neutrophils, erythrocytes, monocytes, macrophages, B-lymphocyte, NK cells, T-lymphocytes , thrombocytes
How many of the above cells constitute cellular barrier of innate immunity ?
(1) Three (2) Four
(3) Five (4) Six

38. Which of the following option is true related to production and functions of a molecule which is a glycoprotein and represented as H_2L_2 ?

	Produced by	Functions
(1)	T-killer cell	cellular immunity
(2)	B cells	inflammation
(3)	NK cells	phagocytosis
(4)	Plasma cells	opsonization

39. In a sterile female, Barr body is absent, ovary is underdeveloped. In this female, total number of chromosomes are :-
(1) 46 (2) 47
(3) 45 (4) 44

40. A plant, native of South America is a source of a drug of addiction which is CNS stimulant. This drug inhibits transport of
(1) Acetylcholine
(2) Dopamine
(3) Serotonin
(4) Adrenaline

EXERCISE - III ANSWER KEY

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Answer	4	2	4	2	2	1	4	4	4	3	4	4	4	4	1
Question	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Answer	1	4	2	1	4	4	3	3	3	1	2	1	1	2	4
Question	31	32	33	34	35	36	37	38	39	40					
Answer	4	3	3	1	2	3	2	4	3	2					

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Important Notes